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San Francisco Bay Area Interregional County-to-County Commute Patterns

1990 Census

Working Paper #4

Planning Section
Metropolitan Transportation Commission
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I. INTRODUCTION

Working Paper #4 on the 1990 Census provides analyses of interregional commuters in the Bay Area and Northern California. This Working Paper complements Working Paper #3, released December 22, 1992. Working Paper #3 and #4 are MTC analyses of data from the U.S. Bureau of the Census 1990 Census (Summary Tape File S-5); the 1980 Census Urban Transportation Planning Package (UTPP); and various 1980 Census printed reports.

MTC Working Paper #1, published in April 1992, describes Bay Area data from the 100-percent count data file released by the U.S. Bureau of the Census (also known as "Summary Tape File 1A" or "STF1A"). MTC Working Paper #2, published in August 1992, describes transportation-related data from the sample count data file from the U.S. Census Bureau (also known as "Summary Tape File 3A" or "STF3A"). The sample count data file is based on census responses from approximately one-in-eight Bay Area households (the 1990 Census "long form"). The 100-percent count data is based on responses from all Bay Area households (the 1990 Census "short form").

Working Paper #4 describes interregional ("between region") commute patterns. Working Paper #3 describes intraregional ("within region") commute patterns.

What to Expect Next

More detailed journey-to-work data from the 1990 Census is expected for release by the Census Bureau in 1993. These data files are known as the Census Transportation Planning Package, or the CTPP. Data on city-to-city commute patterns is expected in Spring 1993. This city-to-city database will also include data on means of transportation on a county-to-county basis to complement the Working Paper #3 and #4 county-to-county data. Data on detailed neighborhood-to-neighborhood commute patterns is expected during the summer or fall of 1993. The neighborhood, or "zone" level, journey-to-work file will have data for approximately 3,100 areas within the nine county San Francisco Bay Area. The city-to-city and zone-to-zone data files will also include information on detailed interregional, as well as intraregional commuting patterns. These files and related analyses will be made available by the MTC.

II. COMMUTING INTO THE BAY AREA

Tables showing neighboring county-to-Bay Area commutes and Bay Area-to-neighboring county commutes are included in Tables 1 through 6. Also included is a map showing counties adjacent to the Bay Area and a map of counties in California.

The number of Bay Area neighboring county workers[1] commuting to jobs in the Bay Area is shown in Table 1. Data is provided for the number of commuters in 1980 and in 1990. Data is only available by all means of transportation to work. Percent and absolute changes are also shown. The "@" notation in Table 1 denotes estimates based on MTC analysis of 1980 Census printed reports[2].

Related to Table 1 are summary Tables 3 and 5. Table 3 shows the share of neighboring county workers commuting to Bay Area jobs in 1980 and 1990. A corridor summary of in-commuting to the Bay Area is provided in Table 5.

The 1980 and 1990 Census data indicate a 150 percent increase in the number of neighboring county workers commuting to jobs in the Bay Area, from 30.3 thousand workers in 1980 to 75.8 thousand workers in 1990 (Table 1). Neighboring counties with the greatest number of in-commuters in 1990 include Santa Cruz County (20,600 commuters); San Joaquin County (20,300 commuters); Stanislaus County

1) The terms "workers" and "commuters" are used interchangeably in this text. More precisely, the term workers, or commuters, should be thought of as "workers who are working during the Census reference week." The "census reference week" is the last week of March 1980 or March 1990. If a person was not at work during "census reference week" (due to absenteeism or temporary unemployment) then he/she are not considered a "worker" or "commuter."

These worker, or commuter values, are not the same as "work trips." These commuter flow values would have to be factored and adjusted to approximate "work trips" used in transportation planning practice.

"Workers at place-of-work" is not synonymous with "jobs" or "total employment." This is because the Census only indicates the "principal" or "main" job of a worker-at-work, and not any second or "moonlighting" jobs. "Workers at place-of-work" also will exclude workers who are not at work during the "Census reference week" due to absenteeism or temporary unemployment.

2) This approximation was necessary because the neighboring counties were either non-metropolitan counties (in the case of Mendocino, Lake, Colusa, Merced and San Benito); or the neighboring metropolitan areas did not acquire the 1980 Census Urban Transportation Planning Package (UTPP) journey-to-work data (e.g., the Sacramento and Monterey Bay regions). The printed 1980 Census reports for 1980 included "place of work not reported" which are then re-allocated in these tables.

The 1980 Census UTPP for the Bay Area included interregional commute data for the adjacent counties shown in Table 7. The 1990 Census Summary Tape File S-5, on the other hand, included the number of commuters between all counties in California, the United States, and international commuters.

(10,300 commuters); and Sacramento County (9,000 commuters).

In terms of absolute growth in in-commuting, San Joaquin County-to-Bay Area commuting increased by 16.1 thousand workers between 1980 and 1990 (+383%); Stanislaus County-to-Bay Area increased by 9.3 thousand commuters (+896%); Santa Cruz County-to-Bay Area increased by 5.9 thousand (+41%); and Sacramento County-to-Bay Area commuting increased by 5.4 thousand commuters (+154%) (Table 3).

The largest county-to-county interregional commute is the Santa Cruz County-to-Santa Clara County commute, increasing from 12,900 workers in 1980 to 17,700 workers in 1990, an increase of 37%. The second largest county-to-county commute is the San Joaquin County-to-Alameda County commute which increased from 2,500 commuters in 1980 to 12,500 commuters by 1990, a 374% increase. All other county-to-county commute interchanges are less than 5,000 commuters.

In terms of absolute growth, the fastest growing county-to-county interregional commutes are the San Joaquin County-to-Alameda County commute (+9.5 thousand new commuters); the Santa Cruz County-to-Santa Clara County commute (+4.8 thousand new commuters); and the Stanislaus County-to-Alameda County commute (+4.5 thousand new commuters).

III. COMMUTING FROM THE BAY AREA

The growth in commuters living in the Bay Area and working outside the Bay Area is shown in Table 2. The share of Bay Area workers commuting outside the Bay Area is summarized in Table 4. The number of 1990 Bay Area County commuters to all counties in California (and out-of-state) is included in the nine-page Table 6.

The magnitude of out-commuting from the Bay Area into adjacent county jobs is significantly lower than in-commuting to Bay Area jobs. While Bay Area-to-neighboring county commutes increased from 10,300 workers in 1980 to 21,800 workers in 1990 (Table 2), a 112 percent increase, the number of commuters from neighboring counties working in Bay Area jobs increased by 150 percent, from 30,300 workers in 1980 to 75,800 workers by the year 1990.

Solano County shows the highest share of local resident workers commuting outside the Bay Area, increasing from 4.2 percent of the local work force in 1980 to

5.1 percent of the local work force by 1990. This compares to a regional share of 1.4 percent of all Bay Area workers commuting to jobs outside the Bay Area.

The largest county-to-county out-commute is from Santa Clara households to Santa Cruz County jobs, at 3,500 workers in 1990. The second largest out-commute is the 3,300 Solano County resident workers commuting to jobs in Sacramento County.

Data in Table 2 also shows Bay Area counties to "elsewhere" number of workers. "Elsewhere" will include other counties in California, out-of-state, and overseas workers. The overseas and out-of-state category may include Bay Area resident workers who just happen to be working overseas or out-of-state during the "census reference week," (i.e., the last week of March 1980 or March 1990) although these same workers may "normally" commute to jobs within the Bay Area[3].

The largest commute "destination" for Bay Area resident workers is Sacramento County. The Bay Area-to-Sacramento commute increased from 2,700 workers in 1980 to 6,200 workers by 1990. The second largest commute destination is to jobs in Santa Cruz County. The Bay Area-to-Santa Cruz County commute increased by 167 percent between 1980 and 1990, from 1,700 to 4,500 commuters.

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3) Peculiar results, such as the 804 commuters living in Alameda County and working in Los Angeles County (Table 6), are partially attributable to the way that the Census Bureau asks the place-of-work question. The Census asks "at what location did this person work LAST WEEK?". The Census does *not* ask "Where did this person wake up on the morning of April 1, 1990 and where did this person go that day?" The 804 Alameda County to Los Angeles County commuters are likely business people or "traveling sales people" who just happen to have residences in Alameda County and just happen to be working in Los Angeles County during the last week of March, 1990. Or perhaps these are business people who fly down to Los Angeles every morning and fly back to Oakland every evening.

IV. THE EMERGING ALTAMONT PASS COMMUTE

Probably the most significant finding from this analysis of Bay Area interregional commuting patterns is the rapid growth in the number of commuters from the Central Valley Counties of San Joaquin and Stanislaus over the Altamont Pass (Interstate 580) to jobs in the Bay Area. The 1980 and 1990 censuses indicate a substantial 465 percent growth in commuting from the Central Valley to the Bay Area, increasing from 5.6 thousand to 31.7 thousand daily commuters (Table 5). Whereas the absolute growth in commuting from the Central Valley to the Bay Area is actually smaller than other rapid growth markets within the Bay Area (e.g., East Bay-to-Santa Clara; Solano County-to-Central Bay Area), the percentage growth in this corridor indicates a major shift in housing and jobs within the Central Valley in the 1980s.

The San Joaquin County-to-Bay Area commute increased by 16.1 thousand workers, 1980 to 1990, a 383 percent increase. In 1980, 93.7 percent of San Joaquin resident workers both lived and worked in San Joaquin; by 1990, this share had decreased to 83.4 percent both living and working in San Joaquin.

The Stanislaus County-to-Bay Area commute increased by 9.3 thousand workers, 1980 to 1990, a 893 percent increase (essentially a ten-fold increase in in-commuters from Stanislaus County). In 1980, 91.4 percent of Stanislaus County resident workers lived and worked in Stanislaus; by 1990, this share had decreased to 83.4 percent intracounty commuting.

Where are these Central Valley commuters going? Alameda County (17,100 commuters) is the most popular destination for Central Valley commuters with 54 percent of the total 31,700 Valley-to-Bay Area commuters. Another 24.2 percent of Central Valley commuters (7,700) work in Santa Clara County ("Silicon Valley"), commuting via Altamont Pass (Interstate-580) or Pacheco Pass (California Route 152). Contra Costa County (3,500 commuters) receives 11.1 percent of the trans-Altamont commuters; and San Francisco (1,200 commuters) only 3.7 percent of the workers.

The 1990 Census city-to-city commute patterns, available spring 1993, will provide a more detailed perspective on this rapidly emerging commute growth corridor.

Table 1
External County - to - Bay Area County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
Mendocino	San Francisco	41	83	102.4%	42
Mendocino	San Mateo	20	98	390.0%	78
Mendocino	Santa Clara	0	31	NA	31
Mendocino	Alameda	0	67	NA	67
Mendocino	Contra Costa	15	42	180.0%	27
Mendocino	Solano	15	13	-13.3%	-2
Mendocino	Napa	13	49	276.9%	36
Mendocino	Sonoma	452	739	63.5%	287
Mendocino	Marin	16	80	400.0%	64
Mendocino	**Bay Area**	**572**	**1,202**	**110.1%**	**630**
Mendocino	Mendocino	@24,148	32,604	35.0%	8,456
Mendocino	Elsewhere	@224	573	155.8%	349
Mendocino	Total	24,944	34,379	37.8%	9,435
Lake	San Francisco	88	113	28.4%	25
Lake	San Mateo	0	39	NA	39
Lake	Santa Clara	57	69	21.1%	12
Lake	Alameda	76	118	55.3%	42
Lake	Contra Costa	45	88	95.6%	43
Lake	Solano	28	39	39.3%	11
Lake	Napa	101	49	-51.5%	-52
Lake	Sonoma	165	990	500.0%	825
Lake	Marin	0	89	NA	89
Lake	**Bay Area**	**560**	**1,594**	**184.6%**	**1,034**
Lake	Lake	@9,561	14,233	48.9%	4,672
Lake	Elsewhere	@425	979	130.4%	554
Lake	Total	10,546	16,806	59.4%	6,260
Colusa	San Francisco	0	0	NA	0
Colusa	San Mateo	0	0	NA	0
Colusa	Santa Clara	10	0	-100.0%	-10
Colusa	Alameda	0	29	NA	29
Colusa	Contra Costa	0	13	NA	13
Colusa	Solano	0	84	NA	84
Colusa	Napa	0	0	NA	0
Colusa	Sonoma	0	0	NA	0
Colusa	Marin	0	0	NA	0
Colusa	**Bay Area**	**10**	**126**	**1160.0%**	**116**
Colusa	Colusa	@4,545	5,608	23.4%	1,063
Colusa	Elsewhere	@603	754	25.0%	151
Colusa	Total	5,158	6,488	25.8%	1,330

Table 1 (continued)
External County - to - Bay Area County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
Yolo	San Francisco	238	197	-17.2%	-41
Yolo	San Mateo	85	105	23.5%	20
Yolo	Santa Clara	119	139	16.8%	20
Yolo	Alameda	91	249	173.6%	158
Yolo	Contra Costa	120	326	171.7%	206
Yolo	Solano	1,038	2,284	120.0%	1,246
Yolo	Napa	61	49	-19.7%	-12
Yolo	Sonoma	24	43	79.2%	19
Yolo	Marin	0	38	NA	38
Yolo	**Bay Area**	**1,776**	**3,430**	**93.1%**	**1,654**
Yolo	Yolo	@33,166	43,130	30.0%	9,964
Yolo	Elsewhere	@11,474	17,995	56.8%	6,521
Yolo	Total	46,416	64,555	39.1%	18,139
Placer	San Francisco	147	116	-21.1%	-31
Placer	San Mateo	70	139	98.6%	69
Placer	Santa Clara	44	226	413.6%	182
Placer	Alameda	153	191	24.8%	38
Placer	Contra Costa	71	244	243.7%	173
Placer	Solano	52	247	375.0%	195
Placer	Napa	0	32	NA	32
Placer	Sonoma	11	17	54.5%	6
Placer	Marin	15	7	-53.3%	-8
Placer	**Bay Area**	**563**	**1,219**	**116.5%**	**656**
Placer	Placer	@29,345	46,601	58.8%	17,256
Placer	Elsewhere	@17,564	33,702	91.9%	16,138
Placer	Total	47,472	81,522	71.7%	34,050
Sacramento	San Francisco	650	1,224	88.3%	574
Sacramento	San Mateo	187	483	158.3%	296
Sacramento	Santa Clara	412	1,162	182.0%	750
Sacramento	Alameda	494	1,509	205.5%	1,015
Sacramento	Contra Costa	285	1,235	333.3%	950
Sacramento	Solano	1,099	2,825	157.1%	1,726
Sacramento	Napa	177	193	9.0%	16
Sacramento	Sonoma	126	86	-31.7%	-40
Sacramento	Marin	80	181	126.3%	101
Sacramento	**Bay Area**	**3,510**	**8,898**	**153.5%**	**5,388**
Sacramento	Sacramento	@314,863	424,777	34.9%	109,914
Sacramento	Elsewhere	@22,828	48,646	113.1%	25,818
Sacramento	Total	341,201	482,321	41.4%	141,120

Table 1 (continued)
External County - to - Bay Area County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
San Joaquin	San Francisco	259	756	191.9%	497
San Joaquin	San Mateo	236	755	219.9%	519
San Joaquin	Santa Clara	366	3,380	823.5%	3,014
San Joaquin	Alameda	2,532	12,002	374.0%	9,470
San Joaquin	Contra Costa	564	2,827	401.2%	2,263
San Joaquin	Solano	214	445	107.9%	231
San Joaquin	Napa	29	50	72.4%	21
San Joaquin	Sonoma	8	7	-12.5%	-1
San Joaquin	Marin	0	95	NA	95
San Joaquin	**Bay Area**	**4,208**	**20,317**	**382.8%**	**16,109**
San Joaquin	San Joaquin	123,208	159,413	29.4%	36,205
San Joaquin	Elsewhere	4,105	11,381	177.2%	7,276
San Joaquin	Total	131,521	191,111	45.3%	59,590
Stanislaus	San Francisco	167	380	127.5%	213
Stanislaus	San Mateo	36	538	1394.4%	502
Stanislaus	Santa Clara	245	3,605	1371.4%	3,360
Stanislaus	Alameda	455	4,941	985.9%	4,486
Stanislaus	Contra Costa	56	645	1051.8%	589
Stanislaus	Solano	13	73	461.5%	60
Stanislaus	Napa	0	61	NA	61
Stanislaus	Sonoma	31	35	12.9%	4
Stanislaus	Marin	34	48	41.2%	14
Stanislaus	**Bay Area**	**1,037**	**10,326**	**895.8%**	**9,289**
Stanislaus	Stanislaus	93,046	122,957	32.1%	29,911
Stanislaus	Elsewhere	7,710	14,123	83.2%	6,413
Stanislaus	Total	101,793	147,406	44.8%	45,613
Merced	San Francisco	79	51	-35.4%	-28
Merced	San Mateo	41	57	39.0%	16
Merced	Santa Clara	144	682	373.6%	538
Merced	Alameda	56	153	173.2%	97
Merced	Contra Costa	0	28	NA	28
Merced	Solano	38	22	-42.1%	-16
Merced	Napa	0	15	NA	15
Merced	Sonoma	0	21	NA	21
Merced	Marin	0	0	NA	0
Merced	**Bay Area**	**358**	**1,029**	**187.4%**	**671**
Merced	Merced	@47,662	58,330	22.4%	10,668
Merced	Elsewhere	@5,082	9,338	83.7%	4,256
Merced	Total	53,102	68,697	29.4%	15,595

Table 1 (continued)
External County - to - Bay Area County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
San Benito	San Francisco	12	17	41.7%	5
San Benito	San Mateo	17	65	282.4%	48
San Benito	Santa Clara	1,340	3,768	181.2%	2,428
San Benito	Alameda	55	114	107.3%	59
San Benito	Contra Costa	0	15	NA	15
San Benito	Solano	0	0	NA	0
San Benito	Napa	0	0	NA	0
San Benito	Sonoma	0	0	NA	0
San Benito	Marin	0	0	NA	0
San Benito	**Bay Area**	**1,424**	**3,979**	**179.4%**	**2,555**
San Benito	San Benito	@7,167	10,772	50.3%	3,605
San Benito	Elsewhere	@849	1,779	109.5%	930
San Benito	Total	9,440	16,530	75.1%	7,090
Monterey	San Francisco	237	120	-49.4%	-117
Monterey	San Mateo	54	173	220.4%	119
Monterey	Santa Clara	1,089	2,411	121.4%	1,322
Monterey	Alameda	150	246	64.0%	96
Monterey	Contra Costa	13	83	538.5%	70
Monterey	Solano	0	18	NA	18
Monterey	Napa	0	16	NA	16
Monterey	Sonoma	59	8	-86.4%	-51
Monterey	Marin	0	12	NA	12
Monterey	**Bay Area**	**1,602**	**3,087**	**92.7%**	**1,485**
Monterey	Monterey	@124,473	151,520	21.7%	27,047
Monterey	Elsewhere	@5,165	9,663	87.1%	4,498
Monterey	Total	131,240	164,270	25.2%	33,030
Santa Cruz	San Francisco	427	470	10.1%	43
Santa Cruz	San Mateo	808	1,373	69.9%	565
Santa Cruz	Santa Clara	12,919	17,693	37.0%	4,774
Santa Cruz	Alameda	445	712	60.0%	267
Santa Cruz	Contra Costa	15	263	1653.3%	248
Santa Cruz	Solano	14	20	42.9%	6
Santa Cruz	Napa	0	5	NA	5
Santa Cruz	Sonoma	0	7	NA	7
Santa Cruz	Marin	34	53	55.9%	19
Santa Cruz	**Bay Area**	**14,662**	**20,596**	**40.5%**	**5,934**
Santa Cruz	Santa Cruz	@63,764	89,628	40.6%	25,864
Santa Cruz	Elsewhere	@3,202	4,975	55.4%	1,773
Santa Cruz	Total	81,628	115,199	41.1%	33,571

Table 1 (continued)
External County - to - Bay Area County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
Ext Neighbors	San Francisco	2,345	3,527	50.4%	1,182
Ext Neighbors	San Mateo	1,554	3,825	146.1%	2,271
Ext Neighbors	Santa Clara	16,745	33,166	98.1%	16,421
Ext Neighbors	Alameda	4,507	20,331	351.1%	15,824
Ext Neighbors	Contra Costa	1,184	5,809	390.6%	4,625
Ext Neighbors	Solano	2,511	6,070	141.7%	3,559
Ext Neighbors	Napa	381	519	36.2%	138
Ext Neighbors	Sonoma	876	1,953	122.9%	1,077
Ext Neighbors	Marin	179	603	236.9%	424
Ext Neighbors	Bay Area	30,282	75,803	150.3%	45,521
Ext Neighbors	Intra-County	874,948	1,159,573	32.5%	284,625
Ext Neighbors	Elsewhere	79,231	153,908	94.3%	74,677
Ext Neighbors	Total	984,461	1,389,284	41.1%	404,823

Table 2
Bay Area County - to - External County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
San Francisco	Mendocino	11	0	-100.0%	-11
San Francisco	Lake	0	14	NA	14
San Francisco	Colusa	0	7	NA	7
San Francisco	Yolo	0	45	NA	45
San Francisco	Placer	10	7	-30.0%	-3
San Francisco	Sacramento	152	284	86.8%	132
San Francisco	San Joaquin	14	95	578.6%	81
San Francisco	Stanislaus	9	31	244.4%	22
San Francisco	Merced	15	10	-33.3%	-5
San Francisco	San Benito	0	19	NA	19
San Francisco	Monterey	107	182	70.1%	75
San Francisco	Santa Cruz	30	117	290.0%	87
San Francisco	**Neighbors**	**348**	**811**	**133.0%**	**463**
San Francisco	Bay Area	331,122	378,985	14.5%	47,863
San Francisco	Elsewhere	2,292	2,513	9.6%	221
San Francisco	Total	333,762	382,309	14.5%	48,547
San Mateo	Mendocino	0	6	NA	6
San Mateo	Lake	0	9	NA	9
San Mateo	Colusa	7	97	1285.7%	90
San Mateo	Yolo	0	38	NA	38
San Mateo	Placer	25	40	60.0%	15
San Mateo	Sacramento	154	165	7.1%	11
San Mateo	San Joaquin	22	10	-54.5%	-12
San Mateo	Stanislaus	12	24	100.0%	12
San Mateo	Merced	10	17	70.0%	7
San Mateo	San Benito	0	21	NA	21
San Mateo	Monterey	31	92	196.8%	61
San Mateo	Santa Cruz	133	393	195.5%	260
San Mateo	**Neighbors**	**394**	**912**	**131.5%**	**518**
San Mateo	Bay Area	301,122	343,290	14.0%	42,168
San Mateo	Elsewhere	2,142	2,357	10.0%	215
San Mateo	Total	303,658	346,559	14.1%	42,901
Santa Clara	Mendocino	18	11	-38.9%	-7
Santa Clara	Lake	21	17	-19.0%	-4
Santa Clara	Colusa	0	0	NA	0
Santa Clara	Yolo	63	49	-22.2%	-14
Santa Clara	Placer	23	83	260.9%	60
Santa Clara	Sacramento	169	424	150.9%	255
Santa Clara	San Joaquin	82	326	297.6%	244
Santa Clara	Stanislaus	140	159	13.6%	19
Santa Clara	Merced	35	43	22.9%	8
Santa Clara	San Benito	547	803	46.8%	256
Santa Clara	Monterey	746	1,149	54.0%	403
Santa Clara	Santa Cruz	1,214	3,505	188.7%	2,291
Santa Clara	**Neighbors**	**3,058**	**6,569**	**114.8%**	**3,511**
Santa Clara	Bay Area	643,897	785,808	22.0%	141,911
Santa Clara	Elsewhere	4,403	4,228	-4.0%	-175
Santa Clara	Total	651,358	796,605	22.3%	145,247

Table 2 (continued)
Bay Area County - to - External County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
Alameda	Mendocino	19	8	-57.9%	-11
Alameda	Lake	26	16	-38.5%	-10
Alameda	Colusa	27	5	-81.5%	-22
Alameda	Yolo	73	187	156.2%	114
Alameda	Placer	37	28	-24.3%	-9
Alameda	Sacramento	381	553	45.1%	172
Alameda	San Joaquin	315	858	172.4%	543
Alameda	Stanislaus	80	313	291.3%	233
Alameda	Merced	0	52	NA	52
Alameda	San Benito	9	18	100.0%	9
Alameda	Monterey	70	172	145.7%	102
Alameda	Santa Cruz	100	322	222.0%	222
Alameda	Neighbors	1,137	2,532	122.7%	1,395
Alameda	Bay Area	502,648	626,353	24.6%	123,705
Alameda	Elsewhere	3,439	4,306	25.2%	867
Alameda	Total	507,224	633,191	24.8%	125,967
Contra Costa	Mendocino	0	36	NA	36
Contra Costa	Lake	10	0	-100.0%	-10
Contra Costa	Colusa	0	0	NA	0
Contra Costa	Yolo	67	196	192.5%	129
Contra Costa	Placer	18	93	416.7%	75
Contra Costa	Sacramento	431	803	86.3%	372
Contra Costa	San Joaquin	436	974	123.4%	538
Contra Costa	Stanislaus	127	180	41.7%	53
Contra Costa	Merced	28	13	-53.6%	-15
Contra Costa	San Benito	0	0	NA	0
Contra Costa	Monterey	41	109	165.9%	68
Contra Costa	Santa Cruz	62	44	-29.0%	-18
Contra Costa	Neighbors	1,220	2,448	100.7%	1,228
Contra Costa	Bay Area	295,976	395,157	33.5%	99,181
Contra Costa	Elsewhere	2,200	3,568	62.2%	1,368
Contra Costa	Total	299,396	401,173	34.0%	101,777
Solano	Mendocino	0	0	NA	0
Solano	Lake	47	0	-100.0%	-47
Solano	Colusa	14	15	7.1%	1
Solano	Yolo	1,708	2,676	56.7%	968
Solano	Placer	40	71	77.5%	31
Solano	Sacramento	1,025	3,316	223.5%	2,291
Solano	San Joaquin	158	286	81.0%	128
Solano	Stanislaus	0	60	NA	60
Solano	Merced	53	34	-35.8%	-19
Solano	San Benito	0	5	NA	5
Solano	Monterey	0	54	NA	54
Solano	Santa Cruz	68	34	-50.0%	-34
Solano	Neighbors	3,113	6,551	110.4%	3,438
Solano	Bay Area	96,873	150,624	55.5%	53,751
Solano	Elsewhere	1,117	1,538	37.7%	421
Solano	Total	101,103	158,713	57.0%	57,610

Table 2 (continued)
Bay Area County - to - External County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
Napa	Mendocino	0	21	NA	21
Napa	Lake	13	90	592.3%	77
Napa	Colusa	0	0	NA	0
Napa	Yolo	15	48	220.0%	33
Napa	Placer	0	16	NA	16
Napa	Sacramento	69	188	172.5%	119
Napa	San Joaquin	0	29	NA	29
Napa	Stanislaus	12	48	300.0%	36
Napa	Merced	0	0	NA	0
Napa	San Benito	11	0	-100.0%	-11
Napa	Monterey	0	7	NA	7
Napa	Santa Cruz	24	0	-100.0%	-24
Napa	Neighbors	144	447	210.4%	303
Napa	Bay Area	41,518	50,760	22.3%	9,242
Napa	Elsewhere	466	366	-21.5%	-100
Napa	Total	42,128	51,573	22.4%	9,445
Sonoma	Mendocino	188	493	162.2%	305
Sonoma	Lake	104	225	116.3%	121
Sonoma	Colusa	37	0	-100.0%	-37
Sonoma	Yolo	29	73	151.7%	44
Sonoma	Placer	44	23	-47.7%	-21
Sonoma	Sacramento	207	336	62.3%	129
Sonoma	San Joaquin	10	87	770.0%	77
Sonoma	Stanislaus	23	6	-73.9%	-17
Sonoma	Merced	0	7	NA	7
Sonoma	San Benito	0	0	NA	0
Sonoma	Monterey	14	30	114.3%	16
Sonoma	Santa Cruz	25	27	8.0%	2
Sonoma	Neighbors	681	1,307	91.9%	626
Sonoma	Bay Area	126,629	188,061	48.5%	61,432
Sonoma	Elsewhere	1,251	1,063	-15.0%	-188
Sonoma	Total	128,561	190,431	48.1%	61,870
Marin	Mendocino	57	7	-87.7%	-50
Marin	Lake	0	8	NA	8
Marin	Colusa	0	0	NA	0
Marin	Yolo	15	34	126.7%	19
Marin	Placer	0	5	NA	5
Marin	Sacramento	76	118	55.3%	42
Marin	San Joaquin	17	20	17.6%	3
Marin	Stanislaus	0	0	NA	0
Marin	Merced	0	0	NA	0
Marin	San Benito	0	0	NA	0
Marin	Monterey	13	32	146.2%	19
Marin	Santa Cruz	13	13	0.0%	0
Marin	Neighbors	191	237	24.1%	46
Marin	Bay Area	114,303	123,672	8.2%	9,369
Marin	Elsewhere	1,281	1,171	-8.6%	-110
Marin	Total	115,775	125,080	8.0%	9,305

Table 2 (continued)
Bay Area County - to - External County Total Workers – 1980 & 1990

County of Residence	County of Work	1980 Workers	1990 Workers	% Change 1980 - 1990	# Change 1980 - 1990
Bay Area	Mendocino	293	582	98.6%	289
Bay Area	Lake	221	379	71.5%	158
Bay Area	Colusa	85	124	45.9%	39
Bay Area	Yolo	1,970	3,346	69.8%	1,376
Bay Area	Placer	197	366	85.8%	169
Bay Area	Sacramento	2,664	6,187	132.2%	3,523
Bay Area	San Joaquin	1,054	2,685	154.7%	1,631
Bay Area	Stanislaus	403	821	103.7%	418
Bay Area	Merced	141	176	24.8%	35
Bay Area	San Benito	567	866	52.7%	299
Bay Area	Monterey	1,022	1,827	78.8%	805
Bay Area	Santa Cruz	1,669	4,455	166.9%	2,786
Bay Area	Neighbors	10,286	21,814	112.1%	11,528
Bay Area	Bay Area	2,454,088	3,042,710	24.0%	588,622
Bay Area	Elsewhere	18,591	21,110	13.5%	2,519
Bay Area	Total	2,482,965	3,085,634	24.3%	602,669

Table 3

Share of Adjacent County Workers Commuting to Bay Area Jobs – 1980 & 1990

County of Residence	1980 Total Workers Commuting to Bay Area	1980 Total Workers Living in County	1980 Share of Workers Commuting to Bay Area	1990 Total Workers Commuting to Bay Area	1990 Total Workers Living in County	1990 Share of Workers Commuting to Bay Area
Mendocino	572	24,944	2.3%	1,202	34,379	3.5%
Lake	560	10,546	5.3%	1,594	16,806	9.5%
Colusa	10	5,158	0.2%	126	6,488	1.9%
Yolo	1,776	46,416	3.8%	3,430	64,555	5.3%
Placer	563	47,472	1.2%	1,219	81,522	1.5%
Sacramento	3,510	341,201	1.0%	8,898	482,321	1.8%
San Joaquin	4,208	131,521	3.2%	20,317	191,111	10.6%
Stanislaus	1,037	101,793	1.0%	10,326	147,406	7.0%
Merced	358	53,102	0.7%	1,029	68,697	1.5%
San Benito	1,424	9,440	15.1%	3,979	16,530	24.1%
Monterey	1,602	131,240	1.2%	3,087	164,270	1.9%
Santa Cruz	14,662	81,628	18.0%	20,596	115,199	17.9%
All Neighbors	30,282	984,461	3.1%	75,803	1,389,284	5.5%

Table 4
Share of Bay Area Workers Commuting Outside the Bay Area – 1980 & 1990

County of Residence	1980 Total Workers Commuting Outside the Bay Area	1980 Total Workers Living in Bay Area	1980 Share of Workers Commuting Outside the Bay Area	1990 Total Workers Commuting Outside the Bay Area	1990 Total Workers Living in Bay Area	1990 Share of Workers Commuting Outside the Bay Area
San Francisco	2,640	333,762	0.8%	3,324	382,309	0.9%
San Mateo	2,536	303,658	0.8%	3,269	346,559	0.9%
Santa Clara	7,461	651,358	1.1%	10,797	796,605	1.4%
Alameda	4,576	507,224	0.9%	6,838	633,191	1.1%
Contra Costa	3,420	299,396	1.1%	6,016	401,173	1.5%
Solano	4,230	101,103	4.2%	8,089	158,713	5.1%
Napa	610	42,128	1.4%	813	51,573	1.6%
Sonoma	1,932	128,561	1.5%	2,370	190,431	1.2%
Marin	1,472	115,775	1.3%	1,408	125,080	1.1%
Bay Area	28,877	2,482,965	1.2%	42,924	3,085,634	1.4%

Table 5
Growth in Interregional Commuting to the Bay Area – 1980 to 1990

County of Residence Corridor of Residence	1980 Total Workers to Bay Area	1990 Total Workers to Bay Area	Percent Change 1980 - 90	Absolute Change 1980 - 90
Mendocino	570	1,200	111%	630
Lake	560	1,590	184%	1,030
Northern Counties	*1,130*	*2,790*	*147%*	*1,660*
Colusa	10	130	1200%	120
Yolo	1,780	3,430	93%	1,650
Placer	560	1,220	118%	660
Sacramento	3,510	8,900	154%	5,390
I-80 Corridor	*5,860*	*13,680*	*133%*	*7,820*
San Joaquin	4,210	20,320	383%	16,110
Stanislaus	1,040	10,330	893%	9,290
Merced	360	1,030	186%	670
Central Valley	*5,610*	*31,680*	*465%*	*26,070*
San Benito	1,420	3,980	180%	2,560
Monterey	1,600	3,090	93%	1,490
Santa Cruz	14,660	20,600	41%	5,940
Monterey Bay Area	*17,680*	*27,670*	*57%*	*9,990*
Neighboring Counties	*30,280*	*75,820*	*150%*	*45,540*
Elsewhere	*NA*	*34,670*		

Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
Alameda	Alameda	446,162
Alameda	Alpine	8
Alameda	Butte	25
Alameda	Calaveras	18
Alameda	Colusa	5
Alameda	Contra Costa	35,521
Alameda	Del Norte	19
Alameda	El Dorado	27
Alameda	Fresno	72
Alameda	Glenn	24
Alameda	Humboldt	21
Alameda	Imperial	14
Alameda	Kern	25
Alameda	Kings	25
Alameda	Lake	16
Alameda	Los Angeles	804
Alameda	Madera	10
Alameda	Marin	2,732
Alameda	Mariposa	7
Alameda	Mendocino	8
Alameda	Merced	52
Alameda	Mono	6
Alameda	Monterey	172
Alameda	Napa	211
Alameda	Nevada	7
Alameda	Orange	214
Alameda	Placer	28
Alameda	Riverside	9
Alameda	Sacramento	553
Alameda	San Benito	18
Alameda	San Bernardino	174
Alameda	San Diego	242
Alameda	San Francisco	60,797
Alameda	San Joaquin	858
Alameda	San Luis Obispo	44
Alameda	San Mateo	26,666
Alameda	Santa Barbara	76
Alameda	Santa Clara	52,449
Alameda	Santa Cruz	322
Alameda	Shasta	44
Alameda	Siskiyou	9
Alameda	Solano	1,328
Alameda	Sonoma	487
Alameda	Stanislaus	313
Alameda	Sutter	8
Alameda	Ventura	47
Alameda	Yolo	187
Alameda	Yuba	39
Alameda	Elsewhere	2,288
Alameda	TOTAL	633,191

Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
Contra Costa	Alameda	83,525
Contra Costa	Amador	39
Contra Costa	Butte	29
Contra Costa	Contra Costa	239,908
Contra Costa	El Dorado	31
Contra Costa	Fresno	126
Contra Costa	Imperial	17
Contra Costa	Kern	43
Contra Costa	Los Angeles	523
Contra Costa	Madera	17
Contra Costa	Marin	3,280
Contra Costa	Mendocino	36
Contra Costa	Merced	13
Contra Costa	Mono	11
Contra Costa	Monterey	109
Contra Costa	Napa	453
Contra Costa	Nevada	68
Contra Costa	Orange	215
Contra Costa	Placer	93
Contra Costa	Riverside	43
Contra Costa	Sacramento	803
Contra Costa	San Bernardino	112
Contra Costa	San Diego	127
Contra Costa	San Francisco	47,714
Contra Costa	San Joaquin	974
Contra Costa	San Luis Obispo	122
Contra Costa	San Mateo	7,867
Contra Costa	Santa Barbara	58
Contra Costa	Santa Clara	5,917
Contra Costa	Santa Cruz	44
Contra Costa	Shasta	36
Contra Costa	Sierra	6
Contra Costa	Solano	6,065
Contra Costa	Sonoma	428
Contra Costa	Stanislaus	180
Contra Costa	Sutter	16
Contra Costa	Tulare	25
Contra Costa	Ventura	22
Contra Costa	Yolo	196
Contra Costa	Yuba	6
Contra Costa	Elsewhere	1,876
Contra Costa	TOTAL	401,173

Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
Marin	Alameda	5,256
Marin	Calaveras	5
Marin	Contra Costa	3,442
Marin	El Dorado	7
Marin	Fresno	18
Marin	Humboldt	5
Marin	Kern	4
Marin	Lake	8
Marin	Los Angeles	227
Marin	Madera	15
Marin	Marin	73,235
Marin	Mariposa	17
Marin	Mendocino	7
Marin	Monterey	32
Marin	Napa	189
Marin	Nevada	16
Marin	Orange	26
Marin	Placer	5
Marin	Riverside	7
Marin	Sacramento	118
Marin	San Bernardino	8
Marin	San Diego	92
Marin	San Francisco	33,690
Marin	San Joaquin	20
Marin	San Mateo	3,239
Marin	Santa Barbara	23
Marin	Santa Clara	556
Marin	Santa Cruz	13
Marin	Shasta	6
Marin	Solano	845
Marin	Sonoma	3,220
Marin	Yolo	34
Marin	Yuba	9
Marin	Elsewhere	686
Marin	TOTAL	125,080

Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
Napa	Alameda	1,087
Napa	Amador	6
Napa	Butte	6
Napa	Contra Costa	1,813
Napa	El Dorado	18
Napa	Fresno	13
Napa	Kern	24
Napa	Kings	6
Napa	Lake	90
Napa	Los Angeles	36
Napa	Marin	549
Napa	Mendocino	21
Napa	Monterey	7
Napa	Napa	38,431
Napa	Orange	9
Napa	Placer	16
Napa	Sacramento	188
Napa	San Diego	17
Napa	San Francisco	1,044
Napa	San Joaquin	29
Napa	San Mateo	286
Napa	Santa Clara	103
Napa	Siskiyou	8
Napa	Solano	5,805
Napa	Sonoma	1,642
Napa	Stanislaus	48
Napa	Sutter	12
Napa	Trinity	8
Napa	Ventura	6
Napa	Yolo	48
Napa	Elsewhere	197
Napa	TOTAL	51,573

Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
San Francisco	Alameda	19,124
San Francisco	Butte	49
San Francisco	Colusa	7
San Francisco	Contra Costa	5,971
San Francisco	Del Norte	9
San Francisco	El Dorado	7
San Francisco	Fresno	64
San Francisco	Humboldt	8
San Francisco	Kern	26
San Francisco	Lake	14
San Francisco	Los Angeles	346
San Francisco	Marin	5,057
San Francisco	Merced	10
San Francisco	Monterey	182
San Francisco	Napa	121
San Francisco	Nevada	33
San Francisco	Orange	119
San Francisco	Placer	7
San Francisco	Riverside	13
San Francisco	Sacramento	284
San Francisco	San Benito	19
San Francisco	San Bernardino	48
San Francisco	San Diego	132
San Francisco	San Francisco	307,400
San Francisco	San Joaquin	95
San Francisco	San Luis Obispo	13
San Francisco	San Mateo	32,556
San Francisco	Santa Barbara	19
San Francisco	Santa Clara	7,897
San Francisco	Santa Cruz	117
San Francisco	Shasta	10
San Francisco	Solano	377
San Francisco	Sonoma	482
San Francisco	Stanislaus	31
San Francisco	Tulare	23
San Francisco	Tuolumne	5
San Francisco	Yolo	45
San Francisco	Elsewhere	1,589
San Francisco	TOTAL	382,309

Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
San Mateo	Alameda	13,229
San Mateo	Amador	16
San Mateo	Butte	31
San Mateo	Calaveras	8
San Mateo	Colusa	97
San Mateo	Contra Costa	4,783
San Mateo	El Dorado	3
San Mateo	Fresno	91
San Mateo	Humboldt	25
San Mateo	Kern	7
San Mateo	Lake	9
San Mateo	Los Angeles	506
San Mateo	Marin	1,406
San Mateo	Mariposa	4
San Mateo	Mendocino	6
San Mateo	Merced	17
San Mateo	Monterey	92
San Mateo	Nevada	7
San Mateo	Orange	107
San Mateo	Placer	40
San Mateo	Plumas	9
San Mateo	Riverside	44
San Mateo	Sacramento	165
San Mateo	San Benito	21
San Mateo	San Bernardino	61
San Mateo	San Diego	111
San Mateo	San Francisco	79,022
San Mateo	San Joaquin	10
San Mateo	San Luis Obispo	27
San Mateo	San Mateo	201,506
San Mateo	Santa Barbara	42
San Mateo	Santa Clara	43,044
San Mateo	Santa Cruz	393
San Mateo	Shasta	14
San Mateo	Siskiyou	10
San Mateo	Solano	183
San Mateo	Sonoma	117
San Mateo	Stanislaus	24
San Mateo	Tehama	6
San Mateo	Tulare	11
San Mateo	Tuolumne	10
San Mateo	Ventura	17
San Mateo	Yolo	38
San Mateo	Yuba	8
San Mateo	Elsewhere	1,182
San Mateo	TOTAL	346,559

Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
Santa Clara	Alameda	24,266
Santa Clara	Alpine	8
Santa Clara	Amador	9
Santa Clara	Butte	53
Santa Clara	Calaveras	12
Santa Clara	Contra Costa	10,850
Santa Clara	El Dorado	10
Santa Clara	Fresno	103
Santa Clara	Glenn	9
Santa Clara	Humboldt	8
Santa Clara	Imperial	9
Santa Clara	Inyo	6
Santa Clara	Kern	46
Santa Clara	Kings	5
Santa Clara	Lake	17
Santa Clara	Los Angeles	869
Santa Clara	Madera	8
Santa Clara	Marin	426
Santa Clara	Mendocino	11
Santa Clara	Merced	43
Santa Clara	Monterey	1,149
Santa Clara	Napa	34
Santa Clara	Orange	249
Santa Clara	Placer	83
Santa Clara	Plumas	12
Santa Clara	Riverside	15
Santa Clara	Sacramento	424
Santa Clara	San Benito	803
Santa Clara	San Bernardino	33
Santa Clara	San Diego	169
Santa Clara	San Francisco	7,594
Santa Clara	San Joaquin	326
Santa Clara	San Luis Obispo	126
Santa Clara	San Mateo	32,036
Santa Clara	Santa Barbara	90
Santa Clara	Santa Clara	710,365
Santa Clara	Santa Cruz	3,505
Santa Clara	Shasta	5
Santa Clara	Siskiyou	13
Santa Clara	Solano	121
Santa Clara	Sonoma	116
Santa Clara	Stanislaus	159
Santa Clara	Tehama	43
Santa Clara	Tulare	24
Santa Clara	Tuolumne	51
Santa Clara	Ventura	106
Santa Clara	Yolo	49
Santa Clara	Yuba	15
Santa Clara	Elsewhere	2,122
Santa Clara	TOTAL	796,605

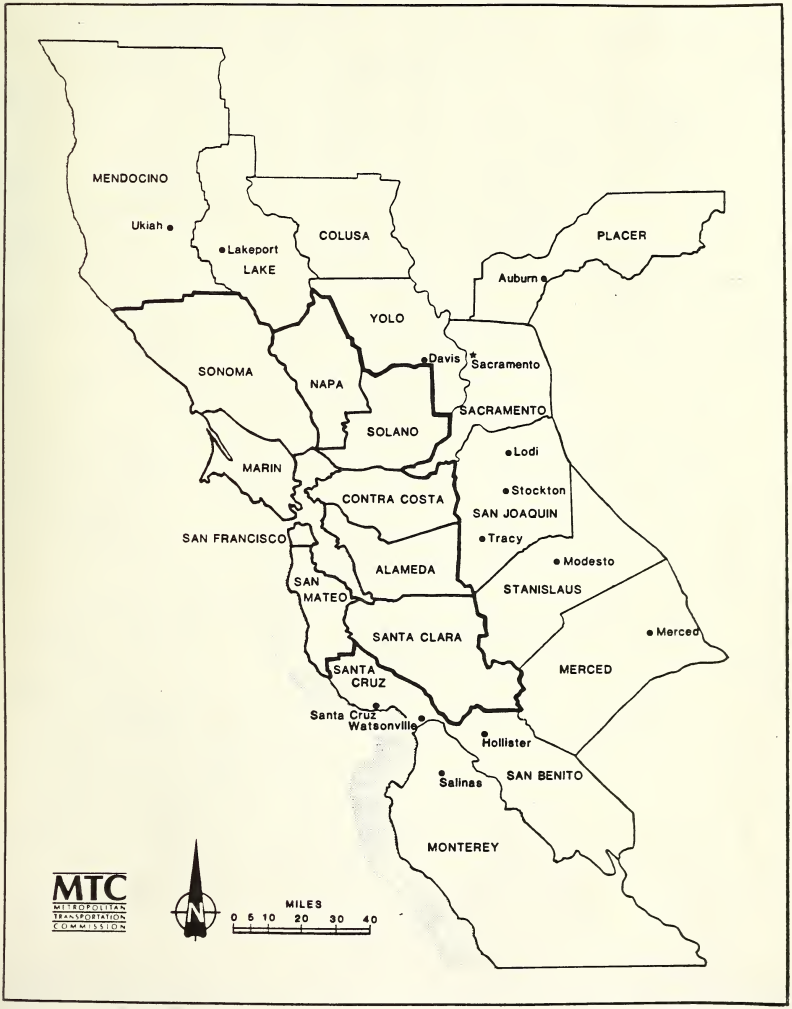
Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
Solano	Alameda	10,326
Solano	Amador	9
Solano	Butte	35
Solano	Calaveras	10
Solano	Colusa	15
Solano	Contra Costa	20,919
Solano	Del Norte	7
Solano	El Dorado	15
Solano	Fresno	31
Solano	Glenn	8
Solano	Kern	61
Solano	Kings	9
Solano	Lassen	7
Solano	Los Angeles	202
Solano	Madera	19
Solano	Marin	1,913
Solano	Mariposa	9
Solano	Merced	34
Solano	Monterey	54
Solano	Napa	5,492
Solano	Nevada	8
Solano	Orange	59
Solano	Placer	71
Solano	Riverside	7
Solano	Sacramento	3,316
Solano	San Benito	5
Solano	San Diego	137
Solano	San Francisco	9,829
Solano	San Joaquin	286
Solano	San Luis Obispo	20
Solano	San Mateo	2,577
Solano	Santa Clara	986
Solano	Santa Cruz	34
Solano	Shasta	25
Solano	Solano	97,477
Solano	Sonoma	1,105
Solano	Stanislaus	60
Solano	Sutter	25
Solano	Tuolumne	4
Solano	Ventura	27
Solano	Yolo	2,676
Solano	Yuba	33
Solano	Elsewhere	771
Solano	TOTAL	158,713

Table 6
Bay Area County - to - All California Counties – Total Workers – 1990

County of Residence	County of Work	Total Workers
Sonoma	Alameda	1,839
Sonoma	Calaveras	10
Sonoma	Contra Costa	1,439
Sonoma	El Dorado	11
Sonoma	Fresno	39
Sonoma	Humboldt	36
Sonoma	Imperial	10
Sonoma	Kern	9
Sonoma	Lake	225
Sonoma	Los Angeles	101
Sonoma	Madera	30
Sonoma	Marin	15,365
Sonoma	Mendocino	493
Sonoma	Merced	7
Sonoma	Monterey	30
Sonoma	Napa	2,033
Sonoma	Nevada	7
Sonoma	Orange	65
Sonoma	Placer	23
Sonoma	Plumas	24
Sonoma	Riverside	17
Sonoma	Sacramento	336
Sonoma	San Bernardino	48
Sonoma	San Diego	36
Sonoma	San Francisco	8,357
Sonoma	San Joaquin	87
Sonoma	San Luis Obispo	28
Sonoma	San Mateo	1,528
Sonoma	Santa Clara	388
Sonoma	Santa Cruz	27
Sonoma	Shasta	10
Sonoma	Solano	1,310
Sonoma	Sonoma	155,802
Sonoma	Stanislaus	6
Sonoma	Sutter	7
Sonoma	Ventura	19
Sonoma	Yolo	73
Sonoma	Yuba	32
Sonoma	Elsewhere	524
Sonoma	TOTAL	190,431

Bay Area and Adjacent Counties



Del Norte
Siskiyou
Modoc
Humboldt
Trinity
Shasta
Lassen
Tehama
Plumas
Mendocino
Glenn
Butte
Sierra
Colusa
Lake
Yuba
Nevada
Sutter
Placer
Sonoma
Napa
Yolo
El Dorado
Sacra-
mento
Alpine
Amador
Marin
Solano
Calaveras
San Joaquin
Contra Costa
San Francisco
Tuolumne
Mono
Alameda
San Mateo
Stanislaus
Mariposa
Santa Clara
Santa Cruz
Merced
Madera
San Benito
Fresno
Monterey
Inyo
Kings
Tulare
San Luis Obispo
Kern
Santa Barbara
San Bernardino
Ventura
Los Angeles
Orange
Riverside
San Diego
Imperial